CLAIMS

What is Claimed is:

1	1. In a system having a multi-speed engine with an air inlet line
2	connected to said engine, a Helmholtz resonator structure comprising:
3	a closed chamber defining a Helmholtz resonator continuously
4	operatively connected to said inlet line via a restricted connection; and
5	means for changing the frequency response of said Helmholtz
6	resonator responsive to changes in speed of said engine.
1	2. The Helmholtz resonator of claim 1 wherein said means for
2	changing the frequency response includes means for effectively changing the volume
3	of said closed chamber connected to said inlet line.
1	3. The Helmholtz resonator of claim 1 wherein said means for
2	changing the frequency response includes at least one restricted connection which is
3	selectively connected between said chamber and said inlet line.
1	4. The Helmholtz resonator of claim 3 wherein said means for
2	changing the frequency response further includes means for effectively changing the
3	volume of said closed chamber connected to said inlet line via said restricted
4	connections.

l	5. A refrigeration system having a multi-speed engine with an
2	inlet line connected to said engine, microprocessor means for controlling the speed of
3	said engine, the improvement comprising:
1	a closed chamber defining a Helmholtz resonator continuously
5	operatively connected to said inlet line via a restricted connection; and
ó	means for changing the frequency response of said Helmholtz
7	resonator responsive to changes in speed of said engine.

1 6. The Helmholtz resonator of claim 5 wherein said means for changing the frequency response includes means for effectively changing the volume of said closed chamber connected to said inlet line.

7. The Helmholtz resonator of claim 5 wherein said means for changing the frequency response includes at least one restricted connection which is selectively connected between said chamber and said inlet line.

8. The Helmholtz resonator of claim 7 wherein said means for changing the frequency response further includes means for effectively changing the volume of said closed chamber connected to said inlet line via said restricted connections.